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Attorney Docket No.: 2384.00060

CLAIMS:

1. (Currently amended) A charge-transfer chemical sensor comprising: a sol-gel

material affixable to a predetermined surface, a backing that enables affixation to

a surface, and charge-transfer indicating means within said sol-gel for detecting

and signaling a presence of at least one chemical.

2. (Previously Presented) The sensor according to claim 1, wherein said

indicating means includes colorimetric signal means for signaling the presence of

at least one chemical.

3. (Previously Presented) The sensor according to claim 2, wherein said signal

means is selected from the group consisting essentially of an indicator with Cu

(II), an indicator with a Lewis acid, Cu.sup.2+/PEDTA, CuZnSOD,

Ni.sup.2+/dimethylglyoxime, thymol blue/Fichlor, thymol blue/sarinase, thymol

blue/somanase, and thymol blue/parathion hydrolase.

4. (Previously Presented) The sensor according to claim 1, wherein said sol-gel

is an optically transparent xerogel.

5. (Previously Presented) The sensor according to claim 1, wherein the chemical

being detected is selected from the group consisting essentially of chemical

warfare agents, agricultural pesticides, and insecticides.

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6. (Currently amended) An indicator for detecting and indicating a presence of at least one chemical, said indicator comprising: a sol-gel material affixable to a predetermined surface, a backing that enables affixation to a surface, and charge-transfer indicating means within said sol-gel for detecting and signaling a presence of at least one chemical.

- 7. (Previously presented) The indicator according to claim 6, wherein said indicating means includes colorimetric signal means for signaling the presence of at least one chemical.
- 8. (Previously Presented) The indicator according to claim 7, wherein said signal means is selected from the group consisting essentially of an indicator with Cu (II), an indicator with a Lewis acid, Cu.sup.2+/PEDTA, CuZnSOD,

  Ni.sup.2+/dimethylglyoxime, thymol blue/Fichlor, thymol blue/sarinase, thymol blue/somanase, and thymol blue/parathion hydrolase.
- (Previously Presented) The indicator according to claim 6, wherein said sol-gel is an optically transparent xerogel.
- 10. (Previously Presented) The indicator according to claim 6, wherein the chemical being detected is selected from the group consisting essentially of chemical warfare agents, agricultural pesticides, and insecticides.

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11. (Previously presented) A method of detecting a presence of at least one

chemical by: applying the indicator of claim 6 to a predetermined surface of an

object; and indicating on the indicator the presence of at least one chemical.

12. (Withdrawn)

13. (Withdrawn)

14. (Withdrawn)

15. (Withdrawn)

16. (Withdrawn)

17. (Withdrawn)